## PATENT COOPERATION TREA

# **PCT**

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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2362-101.PCT	FOR FURTHER ACTION	Preliminary	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/n	nonth/year)	Priority date (day/month/year)		
PCT/US99/05453	12 MARCH 1999		01 APRIL 1998		
International Patent Classification (IPC) or national classification and IPC IPC(7): C01F 11/18 and US Cl.: 422/168; 423/155, 164, 165, 166, 178					
Applicant CHALMERS, FRANKLIN S.					
This international prelimin     Examining Authority and is	ary examination report has transmitted to the applicant	been prepar	ed by this International Preliminary Article 36.		
2. This REPORT consists of a	total of sheets.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a to	otal of sheets.				
3. This report contains indication	ns relating to the following it	ems:			
I X Basis of the repo	ort				
II Priority					
III Non-establishme	nt of report with regard to no	velty, invent	ive step or industrial applicability		
IV Lack of unity of	invention				
V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents	s cited				
VII Certain defects in	the international application				
VIII X Certain observation	ns on the international applicat	ion	•		
Date of submission of the demand	Date	e of completion	n of this report		
13 SEPTEMBER 1999	3	31 MAY 2000			
Name and mailing address of the IPE		norized officer	n da		
Commissioner of Patents and Trade		empilio cinim	TIN DEBORAH THOMAS PARALEGAL SPECIALIST		
Washington, D.C. 20231		STEVE GRIF			
Facsimile No. (703) 305-3230	Tele	phone No.	(703) 308-0661		

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#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/05453

1. With regard to the elements of the international application.*    X   the international application as originally filed     X   the description:	I. Ba	is of the report						
With regard to the language all the elements marked above were available or furnished to this Authority in the language in which the language of a translation furnished for the purposes of international application (under Rule 23.1(b)).    With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international application in printed form.   The statement that the subsequently to this Authority in computer readable form.   The statement that reversals in the subsequence listing has been furnished.   The statement thave resulted in the cancellation of:   With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international application in computer readable form.   The statement that the subsequently to this Authority in computer readable form.   The statement thave available of the translation furnished of the banguage of international application in computer readable form.   The statement that the subsequently to this Authority in computer readable form.   The statement that the subsequently to this Authority in computer readable form.   The statement that the subsequently to this Authority in computer readable form.   The statement that the subsequently to this Authority in computer readable form.   The statement that the subsequently to this Authority in computer readable form.   The statement that the subsequently to this Authority in computer readable form.   The statement that the subsequently to this Authority in computer readable form.   The statement that the subsequently to this Authority in computer readable form.   The statement that the subsequently thrisished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.   The statement that we be engine should be a subsequently to the subsequently thrisished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.   The statement tha	1. With	regard to the elements of the international application:*						
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/05453

v	<ul> <li>Reasoned statement under Article 35 citations and explanations supporting</li> </ul>	5(2) with rega	ard to novelty, inventive step or industrial applicates	bility;
1.			,	
	Novelty (N)	Claims Claims	1-25 NONE	_ YES NO
	Inventive Step (IS)	Claims Claims	1-17 and 20-25 18 and 19	_ YES _ NO
	Industrial Applicability (IA)	Claims Claims	1-25 NONE	_ YES _ NO
s n a: v:	Claims 18 and 19 lack an inventive step under Nadkarni teaches in column 3 an apparatus sulfur bearing pollutants and a sulfide solution not teaching a calcium containing material, hound are thus prima-facie chemically equivalent It is noted that the intended use of an apparatious zones of the apparatus with equal effects	r PCT Article 3 having a soluti n. Also present wever this an o t. atus does not li ctiveness to ach		fers in group e
St	Claims 1-25 meet the criteria set out in PCT Acteps.	Article 33(2) and	d (4), because the prior art does not teach the claimed pro	ocess
C: us	laims 1-25 meet the criteria set out in PCT A seful compounds.	article 33(4), be	ecause the process and apparatus have industrial utility to	make
C! the	laims 1-17 and 20-25 meet the criteria set out e claimed process steps and additional pipes of	t in PCT Article of claims 20 an	e 33(3), because the prior art does not teach or fairly sug	gest
No	 ONE			

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/05453

#### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 19 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because the claim is indefinite for the following reason(s): it should depend from apparatus claim 18.